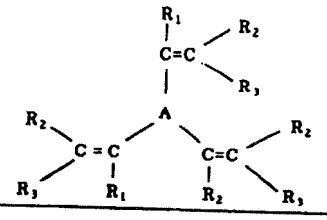
91-068438/10 E13 G08 S06 T04 KAOS 14.06.89
KAO CORP *J0 3015-853-A
14.06.89-JP-150759 (24.01.91) C07d-207/32 C07d-209/12
C07d-231/12 C07d-233/64 C07d-261/08 C07d-263/32
C07d-277/22 C07d-307/52 C07d-333/20 C07d-403/14
C07d-417/14 G03g-05/05

Electrophotographic photoreceptor for copying machine, etc. - contains ethylenically unsatd. heterocyclic cpd. n charge transfer layer on electroconductive support

C91-028987

An electrophotographic photoreceptor having an electric conductive substrate, a charge generation layer and a charge transfer layer as essential elements is characterised by the presence of a heterocyclic cpd. of formula (I) in the charge transfer layer



(I)

E(6-B1, 6-H, 7-D2, 7-E1, 7-H, 25-B) G(6-C14, 6-F6)

R_1 = H, opt. substd. opt. branched alkyl gp. or opt. substd. aryl gp.;

R_2 and R_3 = H, opt. substd. opt. branched alkyl gp., opt. substd. aryl gp., opt. substd. alkenyl gp. or opt. substd. heterocyclic gp., or R_2 and R_3 form ring together with the adjoining C atom; and

A = trivalent gp. consisting of a 5-atom heterocyclic ring condensed with or substd. by a benzene ring.

USE/ADVANTAGE

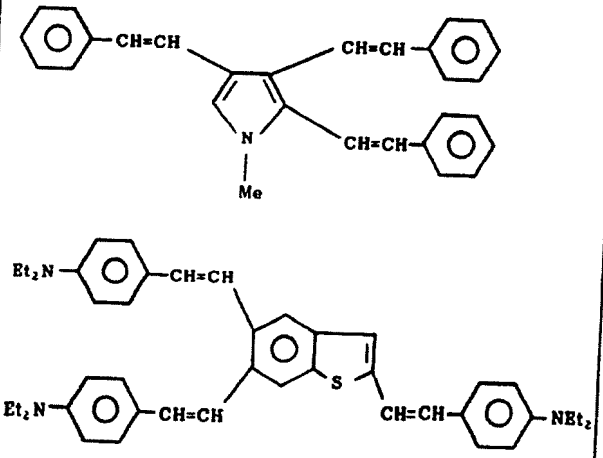
The photoreceptor is suitable for use in copying machines and various electrophotographic devices e.g. laser beam printers, LED printers, liq. crystal printers etc. On account of the presence of the specific heterocyclic cpd. in the charge transfer layer, the photoreceptor has stable initial potential, limited dark attenuation and high sensitivity. It shows also limited deterioration on repeated use and, therefore, has superior durability.

EMBODIMENT

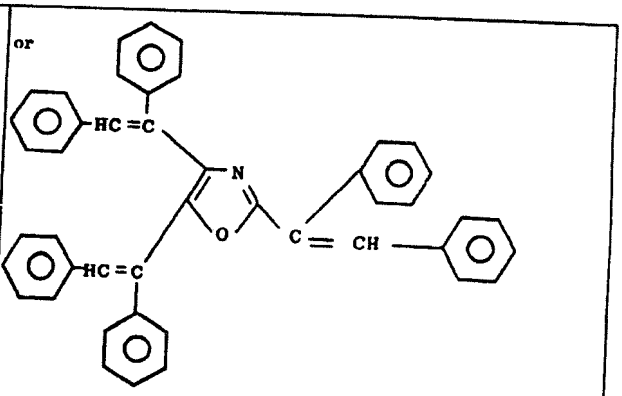
Typical heterocyclic cpds. incorporated in charge

J03015853-A+

transfer layer are of formulae



or



(15ppW19WFADwgNo0/0).

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